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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

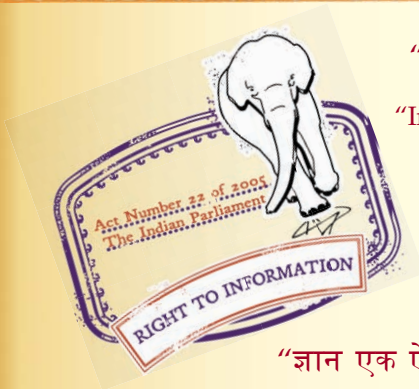
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 1424 (1983): Cotton Canvas [TXD 33: Industrial Fabrics]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS : 1424 – 1983

(Reaffirmed 2000)

Edition 4.2

(1990-07)

Indian Standard
**SPECIFICATION FOR
COTTON CANVAS**
(Third Revision)

(Incorporating Amendment. Nos. 1 & 2)

UDC 677.11.064.13

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Price Group 2

Indian Standard

SPECIFICATION FOR COTTON CANVAS

(Third Revision)

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IS : 1424 – 1983

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Indian Standard

SPECIFICATION FOR COTTON CANVAS

(*Third Revision*)

0. F O R E W O R D

0.1 This Indian Standard (Third Revision) was adopted by the Indian Standards Institution on 26 September 1983, after the draft finalized by the Industrial Textiles Sectional Committee had been approved by the Textile Division Council.

0.2 The standard, formulated in 1959, was revised in 1970 and 1977. This third revision has been made in the light of experience gained in implementing the standard. Provision for waterproofing and the requirements of the proofed cloth has been eliminated in this revision as these are covered in IS : 2089-1977* and IS : 6083-1972†. This revised version related to basic fabric mainly.

0.3 Variety No. 1 of cotton canvas prescribed in this standard is based on IND/TC/221 (c) 'Specification for Canvas, Cotton, 816 g'; Variety No. 2 on IND/TC/0135 (c) 'Specification for Canvas, Cotton, 678 g'; Variety No. 3 on IND/TC/0122 (c) 'Specification for Canvas, Cotton, 544 g'; and Variety No. 4 on IND/TC/0133 (c) 'Specification for Canvas, Cotton, 408 g'; issued by the Ministry of Defence, Government of India.

0.4 Cotton canvas covers cloth with a great variety of uses. Canvas may be used in belting, rubber canvas footwear, insertion sheets and in different types of proofed fabrics, tarpaulins, and bags.

0.5 This edition 4.2 incorporates Amendment No. 1 (June 1986) and Amendment No. 2 (July 1990). Amendment No. 2 is being issued to specify that the number of plies of the plied yarn are mandatory; however, the count of single yarn is approximate and given for guidance only. Side bar indicates modification of the text as the result of incorporation of the amendments.

0.6 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960‡. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Specification for common proofed canvas/duck and paulins (tarpaulins) (*second revision*).

†Specification for special proofed canvas and duck.

‡Rules for rounding off numerical values (*revised*).

1. SCOPE

1.1 This standard prescribes the constructional details and other particulars of four varieties of cotton canvas. The cotton canvas may be grey, scoured or dyed.

1.2 This standard does not specify the general appearance, feel, finish, etc, of the cloth (*see also 4.3*).

2. TERMINOLOGY

2.1 Canvas — A strong, firm, single or double end plain weave cloth made with single or plied yarns and in which the warp predominates.

3. MANUFACTURE

3.1 Yarn — The yarn used for the manufacture of the cloth shall be satisfactory in evenness and reasonably free from neps and spinning and doubling defects.

3.2 Cloth — The cloth should be free from sizing and dressing materials and other substances liable to cause subsequent tendering. The dyed cloth should be free from stains, streaks, patches and specks.

4. REQUIREMENTS

4.1 Constructional Particulars — The constructional particulars of grey, scoured or dyed cloth shall conform to Table 1. The count of single yarn is approximate and given for the guidance of the manufacturers. The number of plies, however, shall not be changed.

4.2 The canvas shall also conform the requirement given in Table 2.

4.3 Sealed Sample — If, in order to illustrate or specify the general appearance, feel and other such characteristics of the cloth, a sample has been agreed upon and sealed, the supply shall be in conformity with the sample in such respects.

4.3.1 The custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

5. MARKING

5.1 The cloth shall be marked with the following:

- a) Manufacturer's name, initials or trade mark;
- b) Name of the material;
- c) Variety number;
- d) Identification mark at both ends;
- e) Year of manufacture;
- f) Width and length of the piece; and
- g) Any other particulars required by the buyer or by the law or regulation in force.

TABLE 1 CONSTRUCTIONAL PARTICULARS OF COTTON CANVAS

VARIETY No.	COUNT OF YARN (APPROXIMATE) (see NOTE 1)	(Clause 4.1)		ENDS/ cm	PICKS/ dm	MASS g/m ²	BREAKING LOAD ON 5 × 20 cm RAVELLED STRIPS, <i>Min</i>		LENGTH m	WIDTH cm	WEAVE			
		Cotton Count Warp	(Universal Count) Weft				(4)	(5)				(6)	(7)	(8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)				
1.	10 s/3 (59 tex × 3)	10 s/4 (59 tex × 4)	23	115	815	2 500	2 100	As agreed	As agreed	Plain or Oxford				
2.	14 s/3 (42 tex × 3)	10 s/3 (59 tex × 3)	26	125	680	2 100	1 760							
3.	18 s/3 (33 tex × 3)	12 s/4 (49 tex × 4) or 14 s/3 (42 tex × 3)	28	145	545	1 760	1 470							
4.	20 s/2 (30 tex × 2)	18 s/4 (33 tex × 4) or 22 s/3 (27 tex × 3)	36	180	410	1 370	1 080							
TOLERANCE, PERCENT	—	—	± 5	± 5	± 5	—	—	—	± 1	—				
METHOD OF TEST	—	—	IS : 1963- 1981*	IS : 1964- 1970†	IS : 1969-1968‡	IS : 1954- 1969§	Visual							

NOTE 1 — To convert cotton count to universal count, in tex, divide 590.5 by the cotton count.

NOTE 2 — 1 N (newton) is approximately equal to 0.102 kgf.

NOTE 3 — The count of single yarn is approximate and given for the guidance of the manufacturers. The number of plies, however, shall not be changed.

*Methods for determination of threads per unit length in woven fabrics (*second revision*).

†Methods for determination of weight per square metre and weight per linear metre of fabrics (*first revision*).

‡Methods for determination of breaking load and elongation at break of woven textile fabrics (*first revision*).

§Methods for determination of length and width of fabrics (*first revision*).

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TABLE 2 REQUIREMENTS OF COTTON CANVAS

(Clause 4.2)

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST
(1)	(2)	(3)	(4)
i)	Scouring loss, percent, <i>Max</i> :		IS : 1383-1977* (Mild method)
	a) Grev	5.0	
	b) Scoured or dyed	2.5	
ii)	pH value (scoured or dyed)	6.0 to 8.5	IS : 1390-1983† (Cold method)
iii)	Shrinkage or elongation, percent, <i>Max</i> :		IS : 2977-1964‡
	a) Grev	5.0	
	b) Scoured or dyed	2.5	
iv)	Colour fastness (dyed canvas) to:		
	a) Light	4 or better	IS : 686-1957§ or IS : 2454-1967
	b) Washing : Test 3	4 or better	IS : 764-1979¶

*Method for determination of scouring loss in grey and finished cotton textile materials (*first revision*).

†Methods for determination of pH value of aqueous extract of textile materials (*first revision*).

‡Methods for determination of dimensional changes of woven fabrics (other than wool) on soaking in water.

§Method for determination of colour fastness of textile materials to daylight.

|| Method for determination of colour fastness of textile materials to artificial light (xenon lamp).

¶Method for determination of colour fastness of textile materials to washing: Test 3 (*second revision*).

5.1.1 The cloth may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors may be obtained from the Indian Standards Institution.

6. PACKING

6.1 The cloth shall be packed in bales or cases in conformity with the procedure laid down either in IS : 1347-1972* or in IS : 293-1980† as required.

7. SAMPLING

7.1 For ascertaining the conforming of the material in respect of ends and picks, mass, breaking load, and length and width, the scale of sampling and criteria for conformity as given in IS : 3919-1966‡ shall be followed.

7.2 For ascertaining the conformity in respect of scouring loss, pH value shrinkage or elongation, and colour fastness, the scale of sampling and criteria for conformity as given in IS : 5463-1969§ shall be followed.

*Specification for inland packaging of cotton cloth and yarn (*first revision*).

†Code for seaworthy packing of cotton yarn and cloth (*third revision*).

‡Methods for sampling cotton fabrics for determination of physical characteristics.

§Methods for sampling of cotton fabrics for chemical tests.

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Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Catalogue' and 'Standards : Monthly Additions'.

This Indian Standard has been developed by Technical Committee : TDC 49

Amendments Issued Since Publication

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Amd. No. 2	July 1990

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